

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

**EP 0 925 769 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:

**08.12.1999 Bulletin 1999/49**

(51) Int. Cl.<sup>6</sup>: **A61F 13/42, A61F 13/15**

(43) Date of publication A2:

**30.06.1999 Bulletin 1999/26**

(21) Application number: **98310340.9**

(22) Date of filing: **16.12.1998**

(84) Designated Contracting States:

**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**

Designated Extension States:

**AL LT LV MK RO SI**

(30) Priority: **16.12.1997 JP 34623897**

(71) Applicant: **UNI-CHARM CORPORATION**

**Kawanoe-shi Ehime-ken (JP)**

(72) Inventors:

- **Shimoe, Nariaki,**  
c/o Research & Development Div.  
**Mitoyo-gun, Kagawa-ken 769-1602 (JP)**
- **Otsubo, Toshifumi,**  
c/o Research & Development Div.  
**Mitoyo-gun, Kagawa-ken 769-1602 (JP)**

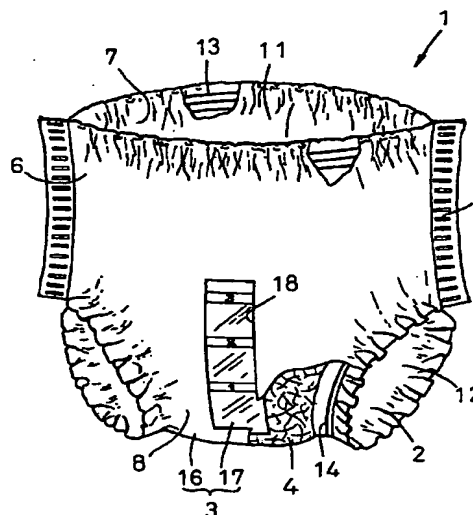
(74) Representative:

**Parry, Christopher Stephen**  
**Saunders & Dolleymore,**  
**9 Rickmansworth Road**  
**Watford, Herts. WD1 7HE (GB)**

(54) **Disposable diaper**

(57) A disposable diaper including a topsheet, a backsheet and a core disposed therebetween so as to define a front waist region, a rear waist region and a crotch region extending therebetween, the backsheet being formed at least in a transversely middle location of the crotch region with a transparent zone through which a wetness of the core due to urine can be observed.

**FIG.1**



**EP 0 925 769 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 98 31 0340

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	US 3 952 746 A (SUMMERS F WAYNE) 27 April 1976 (1976-04-27) * column 1, line 66 - column 2, line 51; claims 1-3,5; figure 2 * * column 4, line 7 - line 65; figures 8,10-12 *	1,2,4,5	A61F13/42 A61F13/15
X	FR 2 727 859 A (BERNEAU JEAN CLAUDE) 14 June 1996 (1996-06-14) * page 1, line 20 - page 2, line 13; claim 4; figure 1 *	1-3,5	
X	US 3 918 454 A (KORODI MIKLOS B ET AL) 11 November 1975 (1975-11-11) * column 2, line 11 - line 39; figure 1 *	1-4,6	
X	GB 2 293 573 A (KIMBERLY CLARK CO) 3 April 1996 (1996-04-03) * page 5, line 28 - line 37; claims 23,25; figures 2,3 * * page 10, line 8 - page 11, line 10 *	1-3,5,6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			A61F
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>12 October 1999</b>	Examiner <b>Joly, F</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (p04c01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 31 0340

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

12-10-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3952746 A	27-04-1976	NONE	
FR 2727859 A	14-06-1996	NONE	
US 3918454 A	11-11-1975	NONE	
GB 2293573 A	03-04-1996	AU 702372 B	18-02-1999
		AU 3214095 A	26-04-1996
		CA 2152407 A	31-03-1996
		EP 0785762 A	30-07-1997
		FR 2725155 A	05-04-1996
		JP 10506586 T	30-06-1998
		WO 9610380 A	11-04-1996
		US 5897541 A	27-04-1999
		ZA 9507567 A	17-04-1996

EPO FORM P468

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82